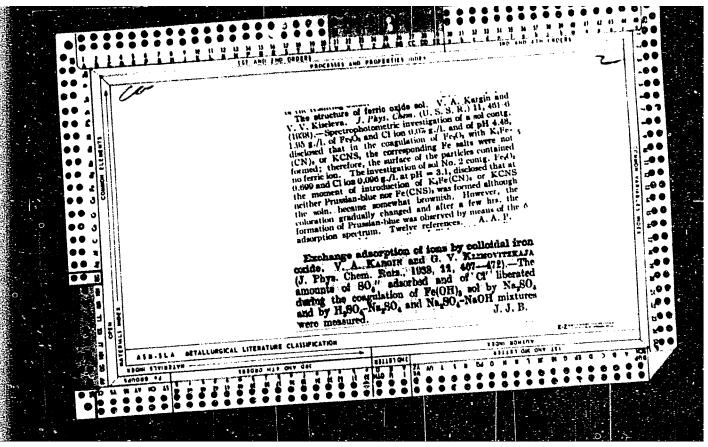
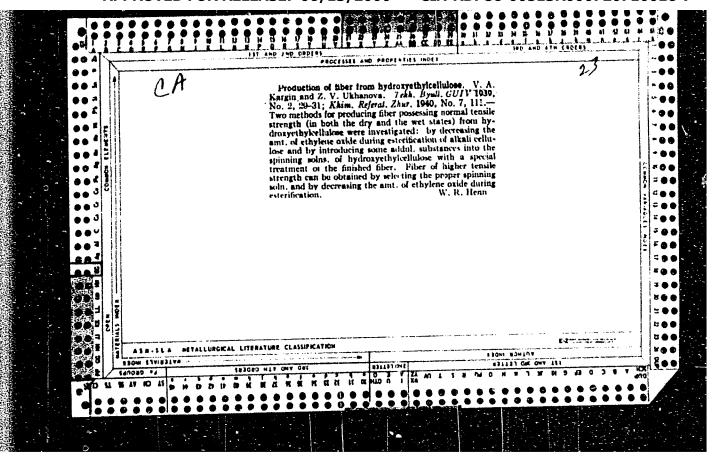
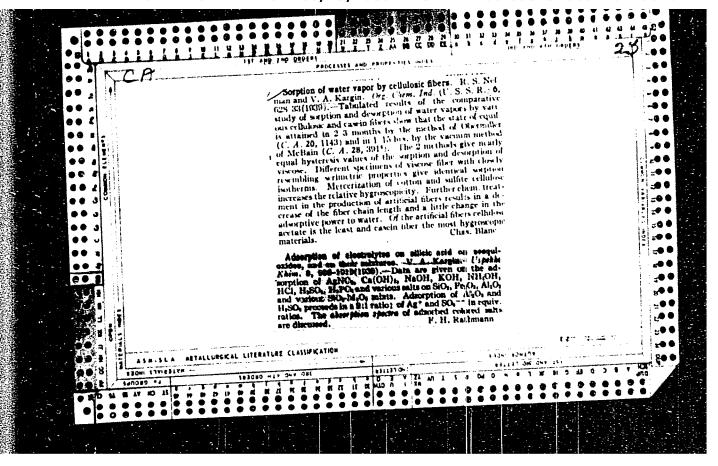
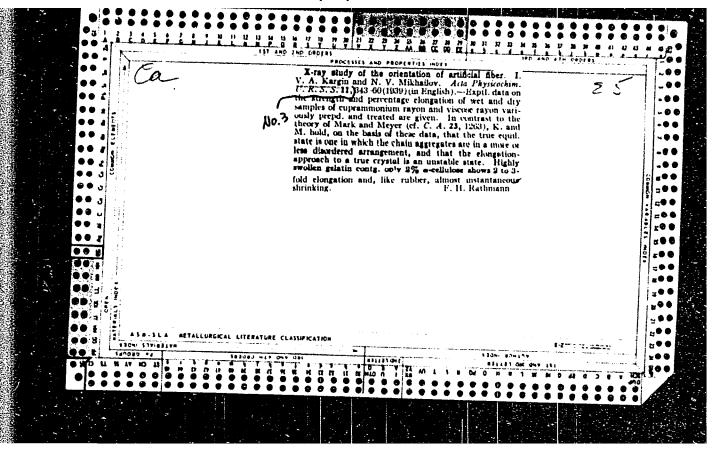
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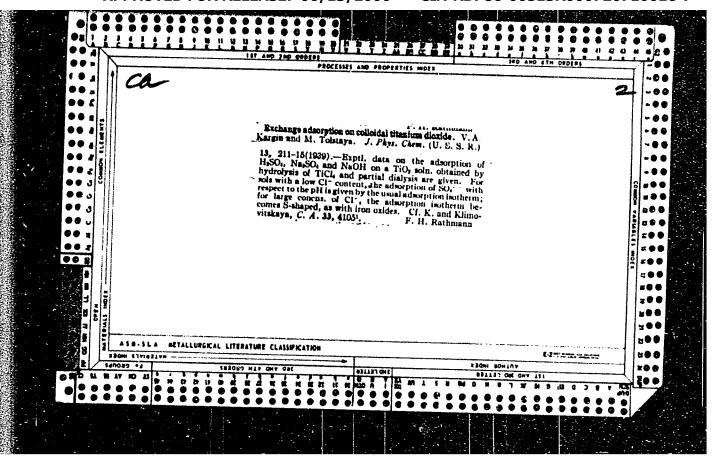


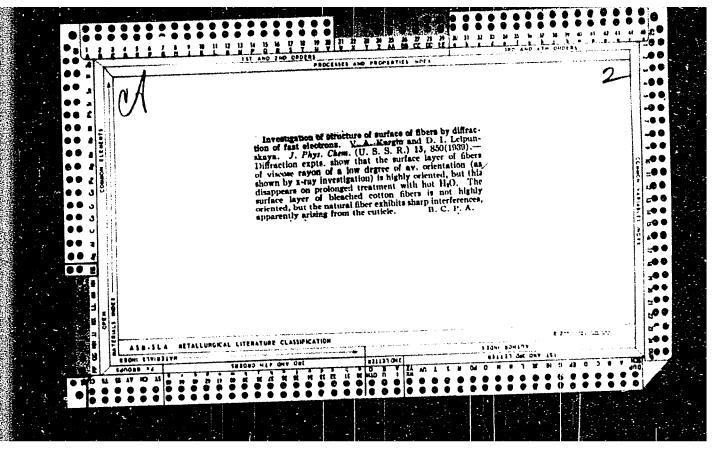


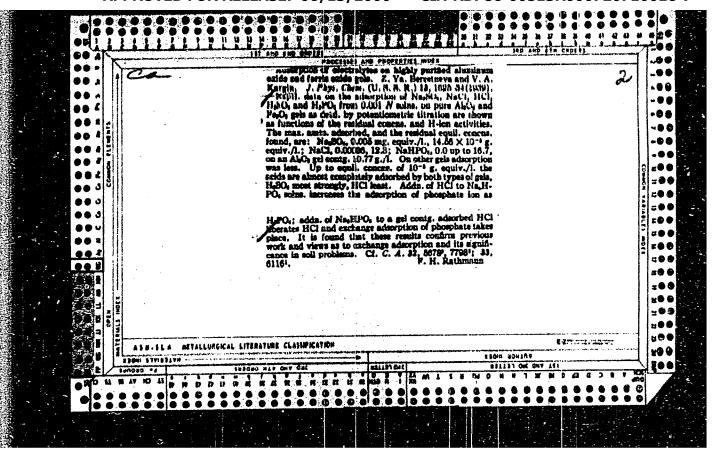


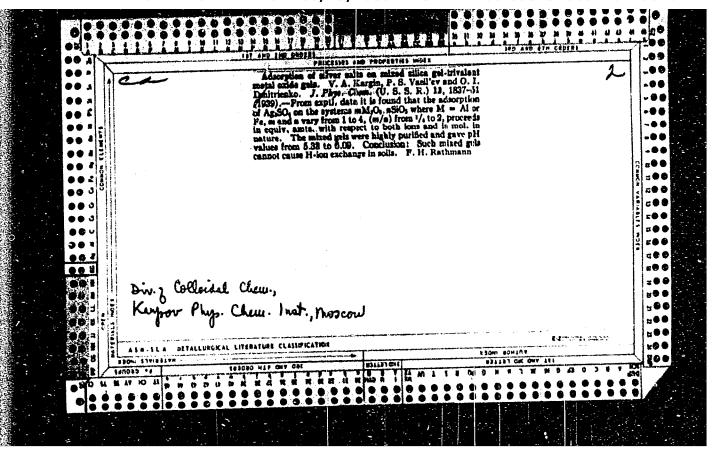


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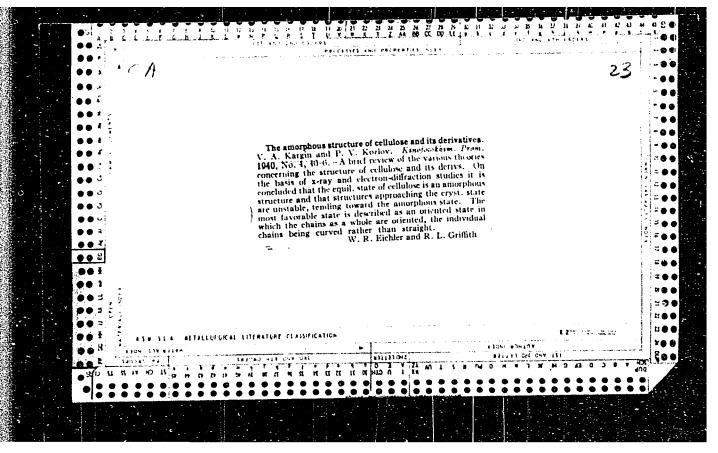


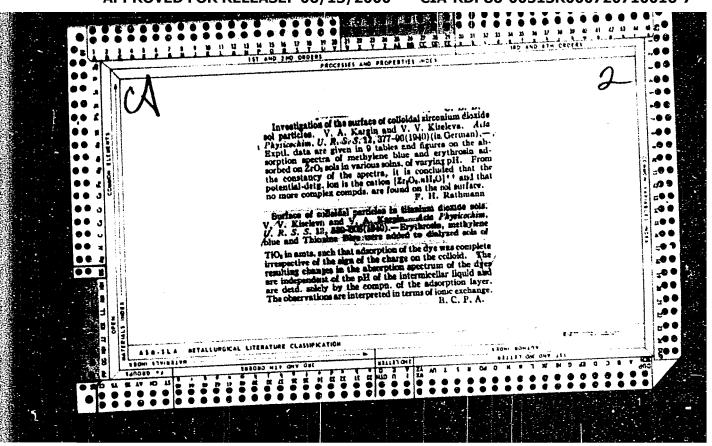


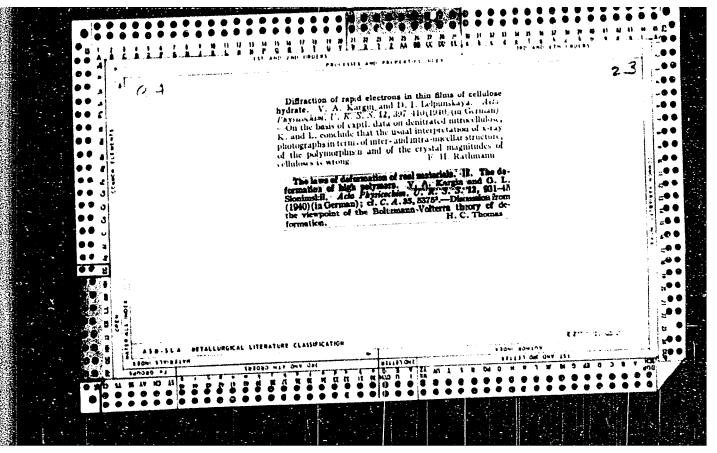
- 1. KARGIN, V.; PAPKOV, S.; ROGOVIN, Z.
- 2. USSR (600)

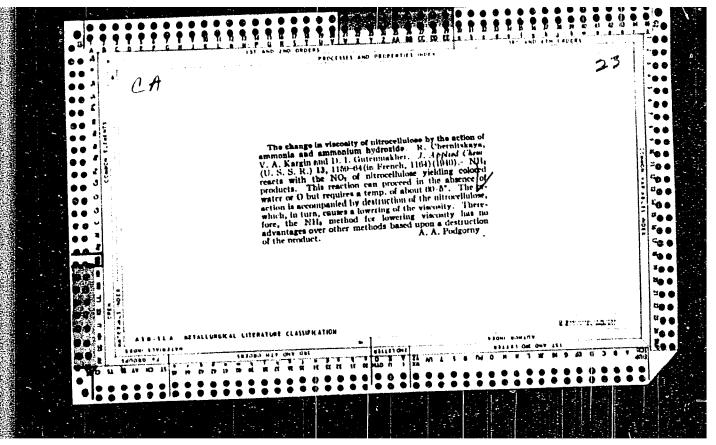
"The Solubility of Compounds of High Molecular Weight -- V. General Characteristics of Solutions of Compounds of High Molecular Weight"; Zhur. Fiz. Khim. 13, No. 2, 1939; Institute of Synthetic Fibers, Mytishchi; Rcd 19 May 1938.

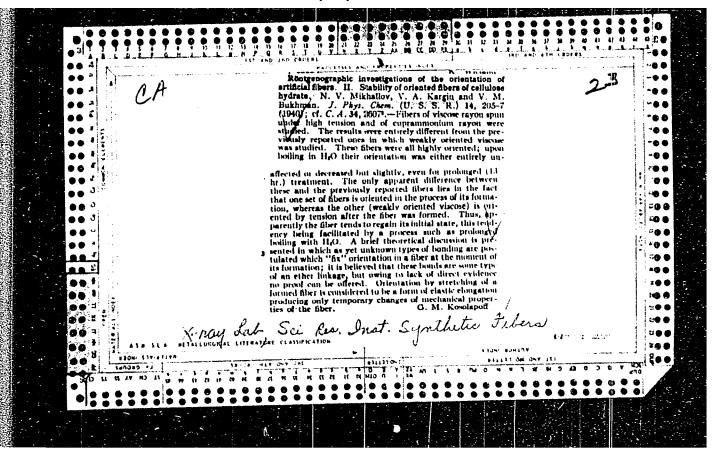
9. Report U-1613, 3 Jan. 1952.

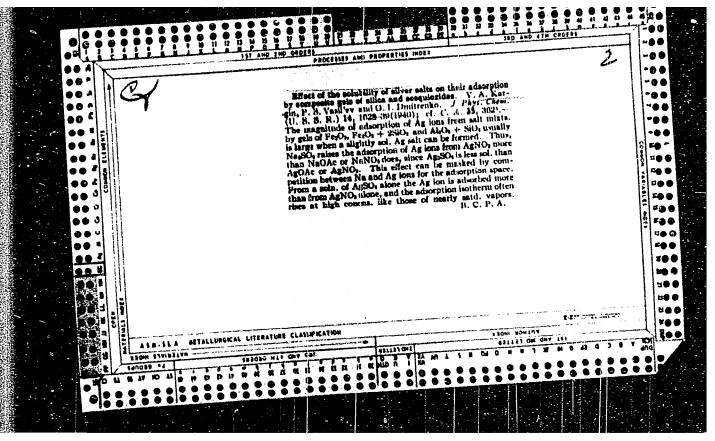


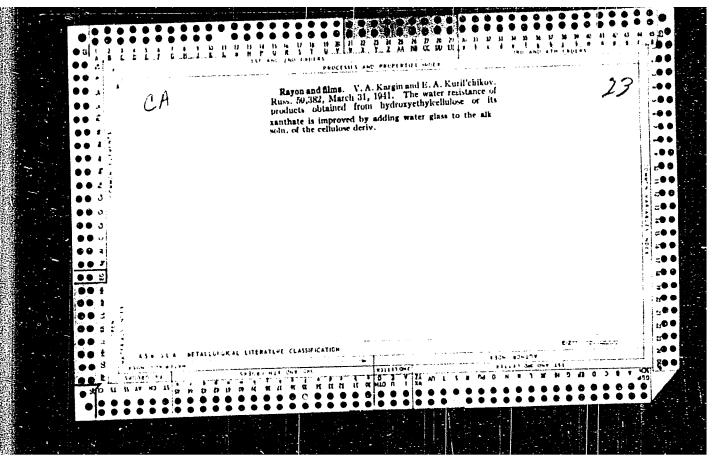


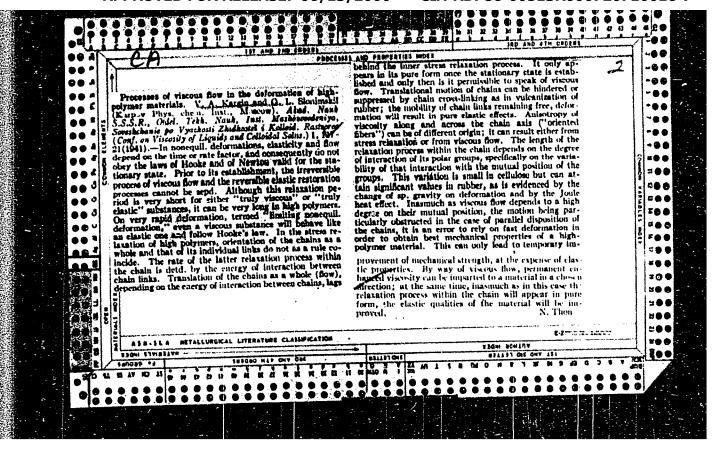


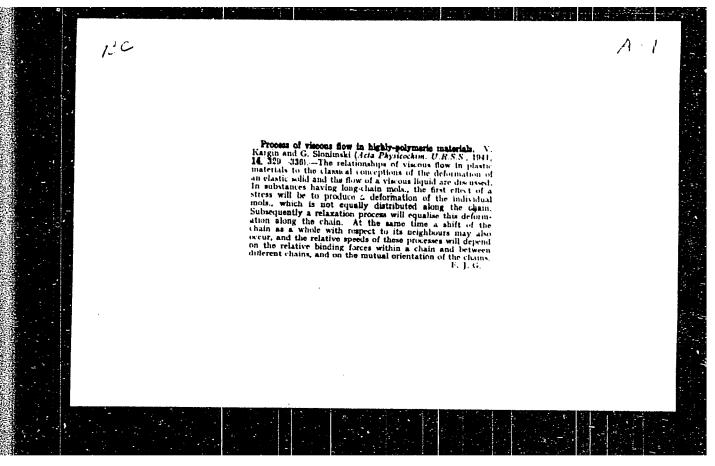




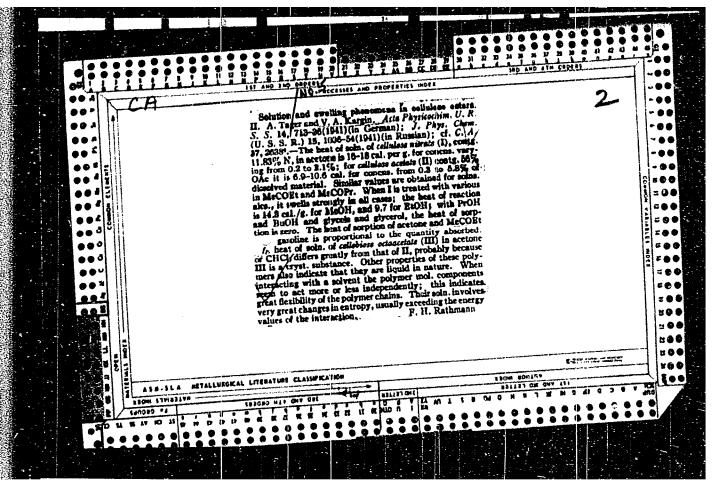








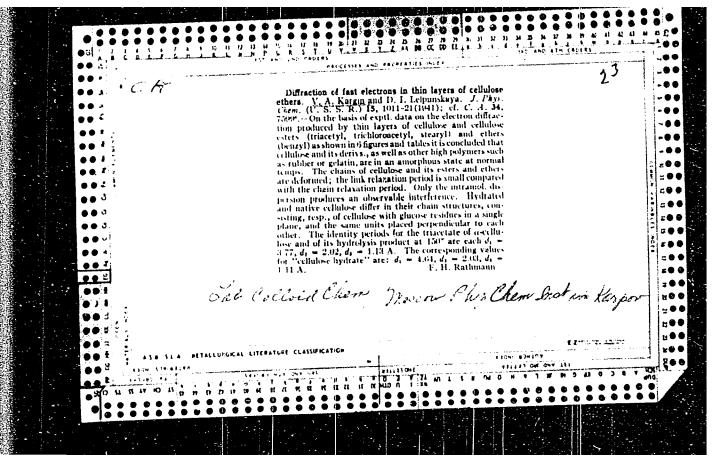
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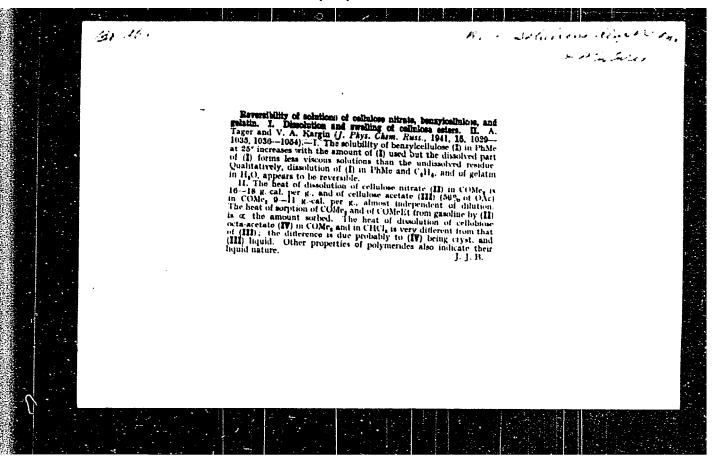


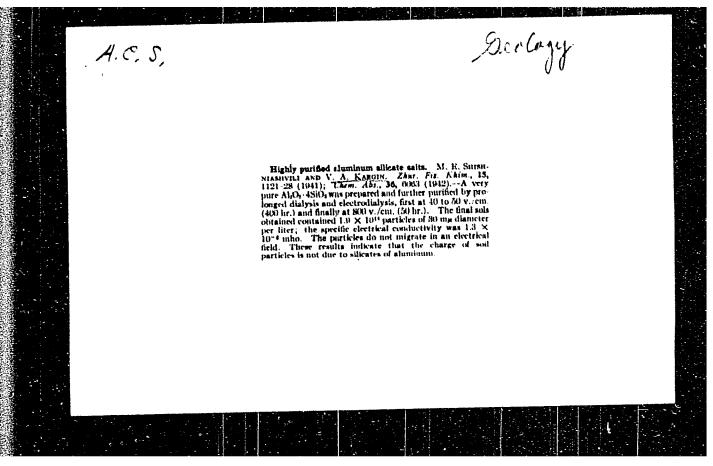
KARGIN, V. A.

"The Extraordinary Physical Peculiarities of High Polymers," Acta. Phys., Vol. XIV, No. 6, 1941.

"The Difference of Quick Electrons in thin Films of Cellulose Ester," Acta. Phys. Vol. XIV, No. 5, 1941.





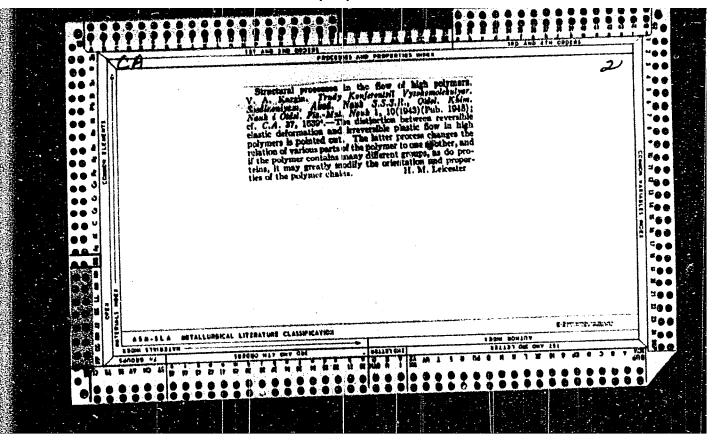


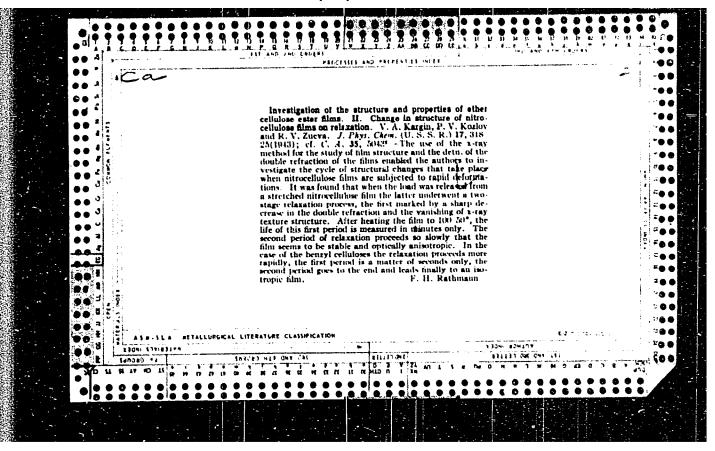
KARGIN, V. A.; TOLSTAYA, M. A.

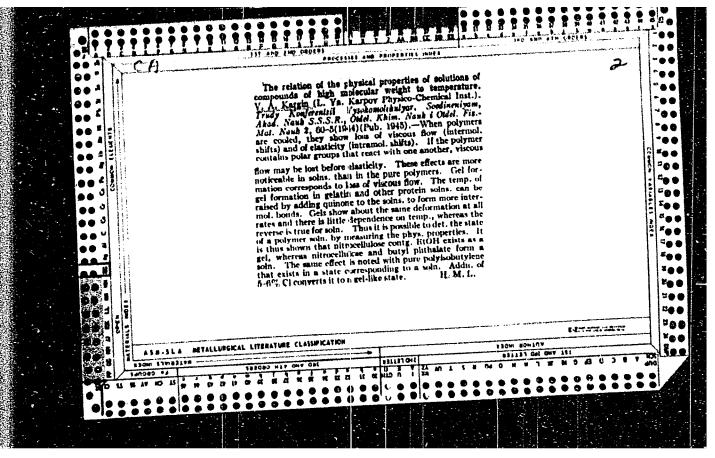
"Exchange Adsorption on Sols of Silver Iodide", Zhur. Fiz. Khim, 16, Nos. 3-4, 1942.

Moscow, Physico-Chemical Institute imeni L. Ya Karpov, Laboratory of Colloidal Chemistry. Received 26 April 1941.

Report U-1523, 24 Oct. 1951.



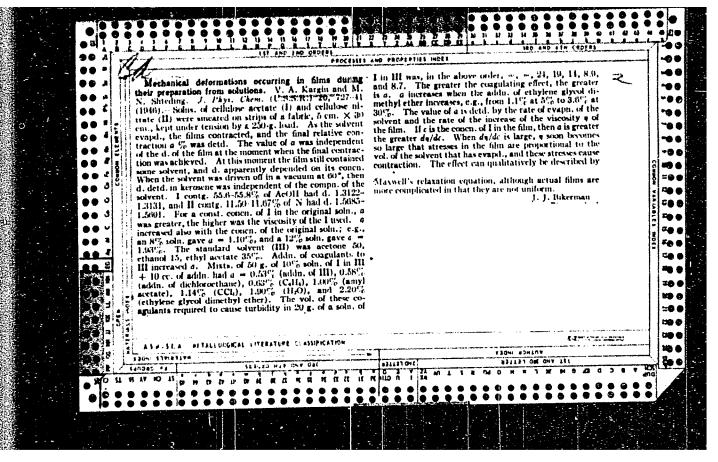




KARGIR, J. A.

"Effect of Theoreture on the Physico-Chemical Properties of Linear Polymers," a report presented at the June session of the Dept. of Chem. Sci., AS USSR held 28-29 June 1946.

Vestnik AS USSR 8/9, 1946



KARGIN, V.

USSR/Chemistry - Silicic acid, Gelation of

Chemistry - Electrochemistry

Jul/Aug 1946

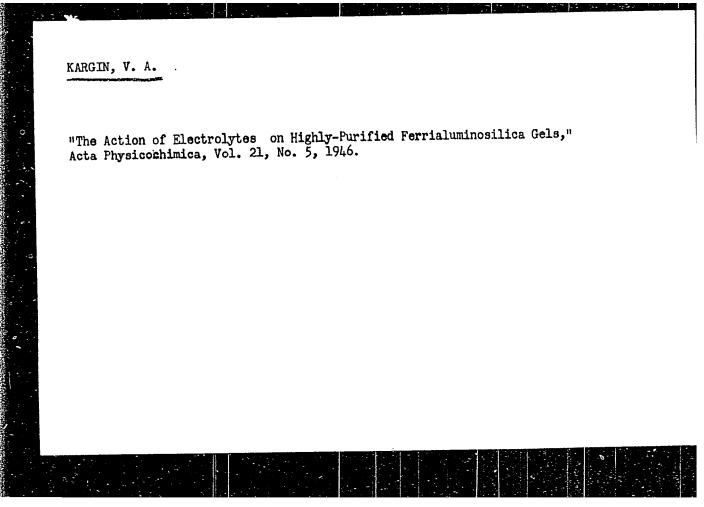
"The Electrochemical Properties of Highly Purified Ferrialuminosilica Gels and Sols," M. Shishniashvili, Chem Inst, Acad Sci Ceorgian SSR, Tibilisi; V. Kargin, Karpov Inst

Phys Chem, Moscow, 18 pp

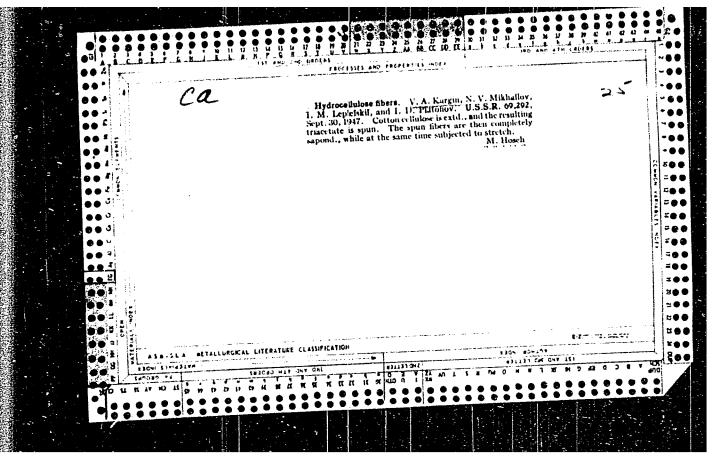
"Acta Physicochimica URSS" Vol XXI, No 4

Study of highly purified mixed gels of silicic acid and sesquioxides. There are no electric charges on gel particles, indicating that gels contain no ionizable groups. Concludes hat pure aluminosilica gels are not electrolytes. Received 4 May 1945.

PA 52T4



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720710016-7

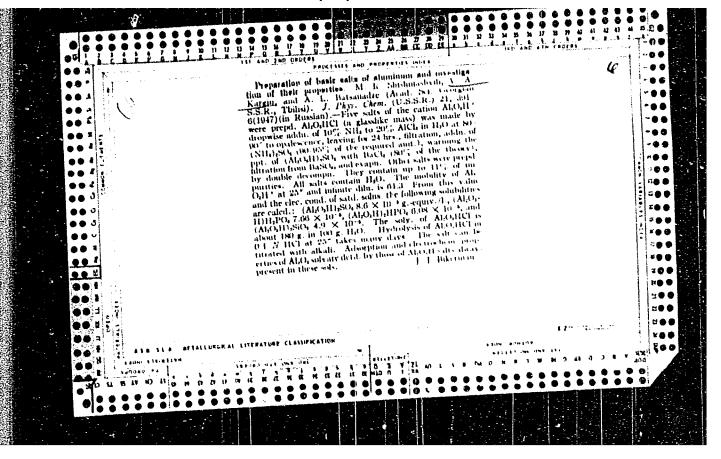


KARGIN, S. I.

Nitrogen Oxides

A reply to A,M. Murzin's article: "Optimum concentration of oxygen in the process of oxidation of nitrous gases." Zhur. prikl. khim. 20, No. 5, 1947.

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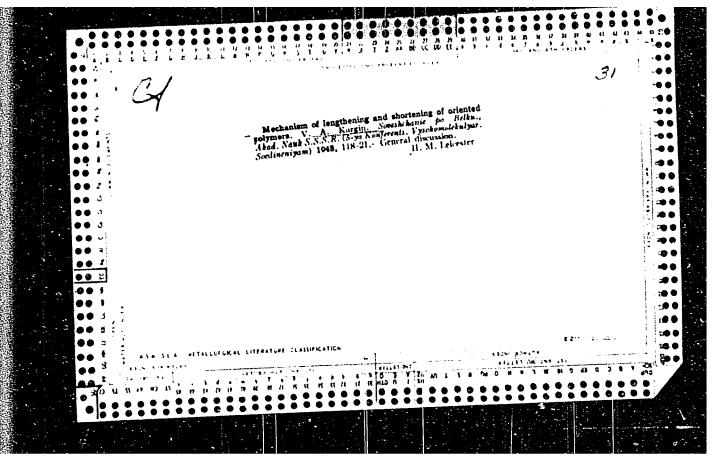
ARBUZOV, B.A., redaktor; DOLGOPOLOSK, B.A., redaktor; KARGIN, V.A., redaktor; MEDVEDEV, S.S., otvetstvennyy redaktor; RAFIKOV, S.R., redaktor; ROGOVIN, Z.A., redaktor; VASKEVICH, D.H., redaktor izdatel stva; SIMKINA, Ye.N., tekhnicheskiy redaktor

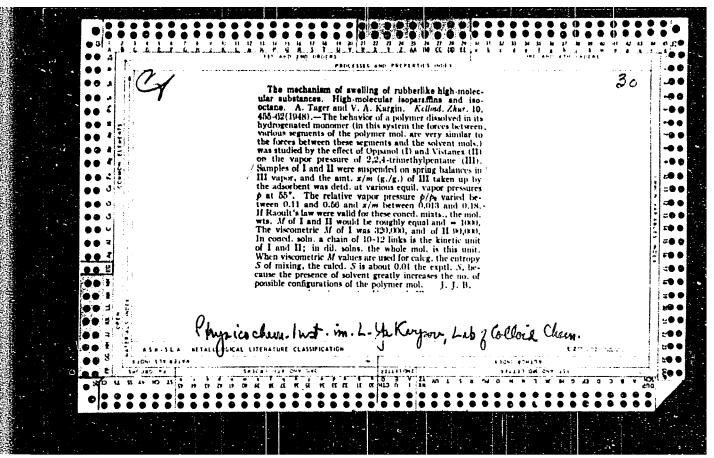
[Proceedings of the third conference on high molecular weight compounds; polymerization and polycondensation] Trudy tret'ei konferentsii po vysokomolekulyarnym soedineniiam; polimerizatsiia i polikondensatsiia. Moskva, Izd-vo Akademii nauk SSSR, 1948.

177 p. (MIRA 10:1)

1. Konferentsiya po vysokomolekulyarnym soyedineniyam. 3d, Moscow, 1945.

(Polymerization) (Condensation products (Chemistry))



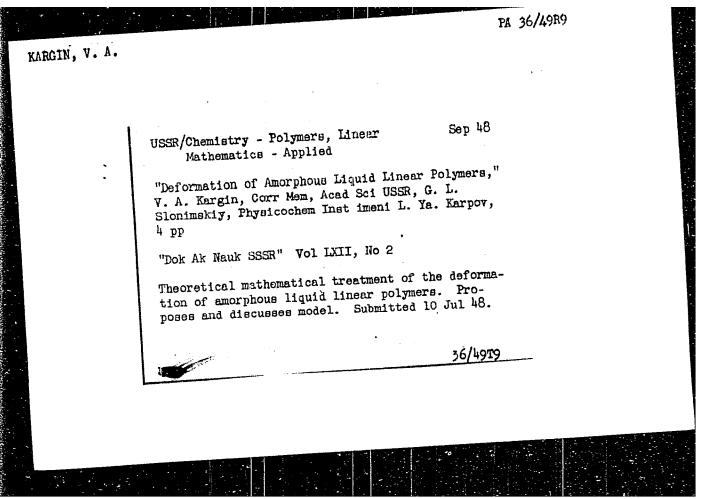


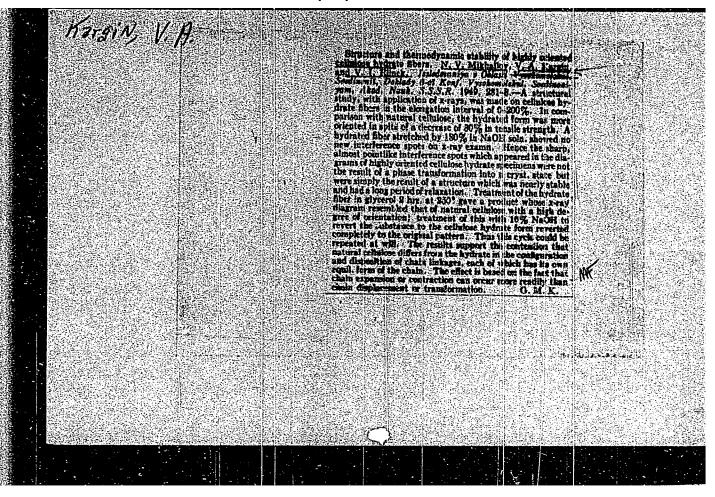
KARGIN, V. A.

"The Structure of V_2O_5 Ashes," Dok. Akad. Nauk, Vol. 59, No. 6, 1948.

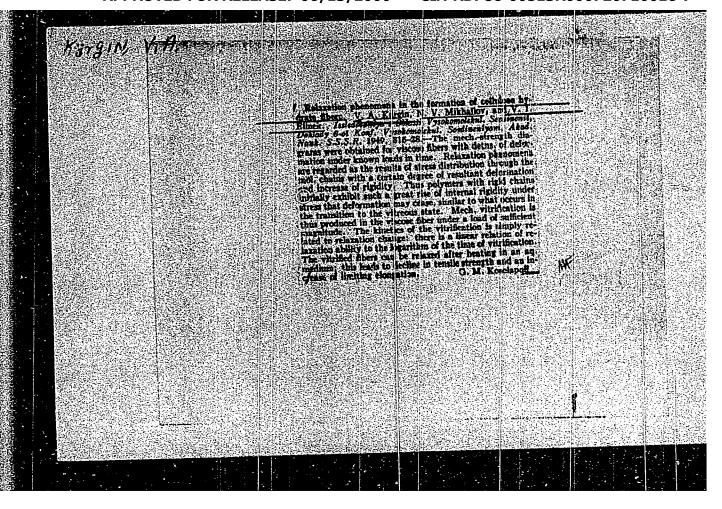
"Research on the Process of Viscous Flow in Polyisobutylene," in collaboration with T. I. Sogolova, in Zhurnal Fizicheskoichemii, Vol. XXIII, No. 6, 1948

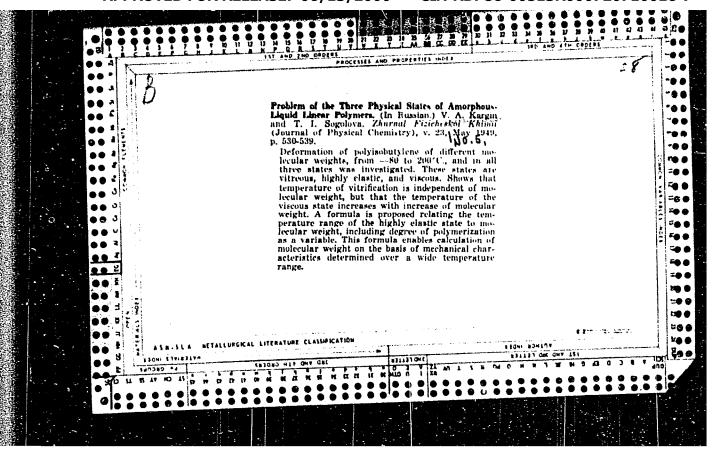
"Physical Chemistry of High-polymer Substances," Zhur. Fiz. Khim., 1948-49.

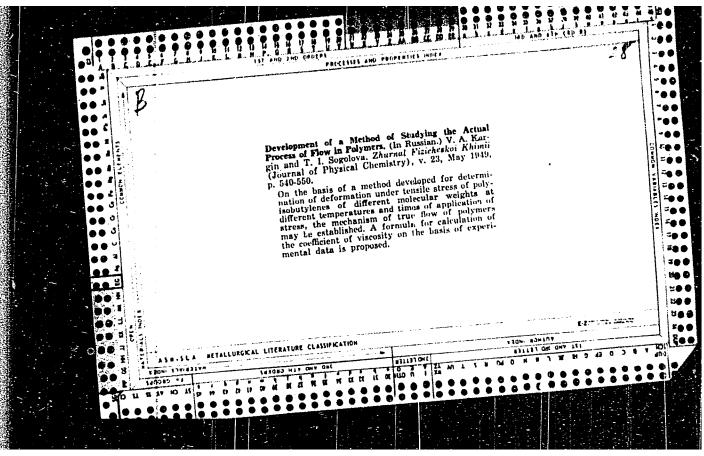


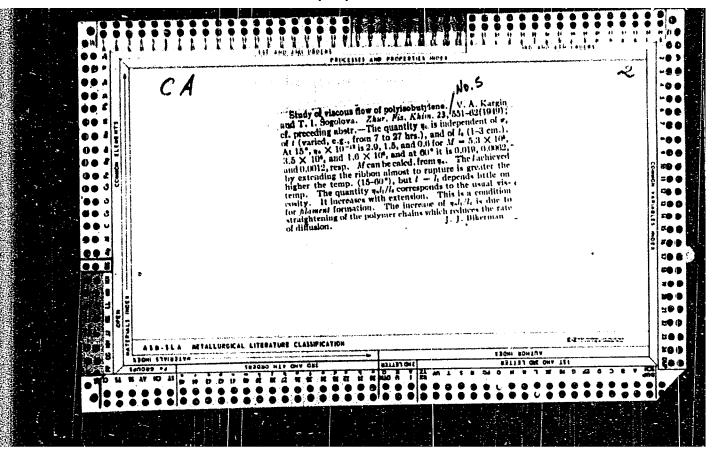


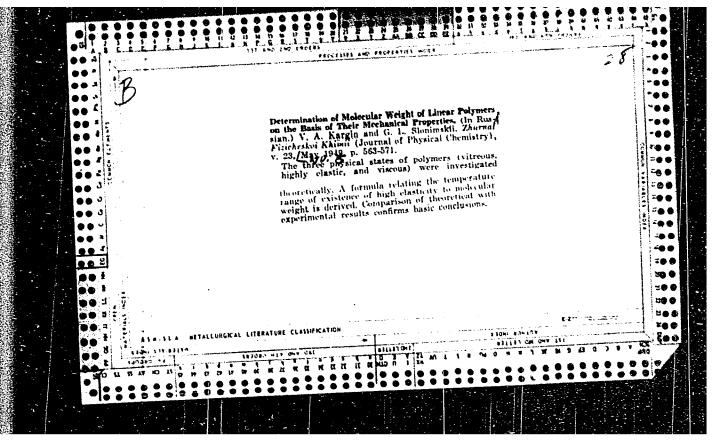
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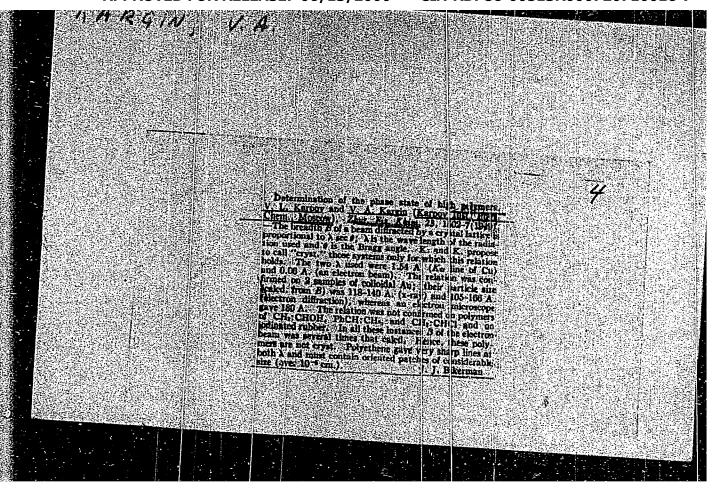




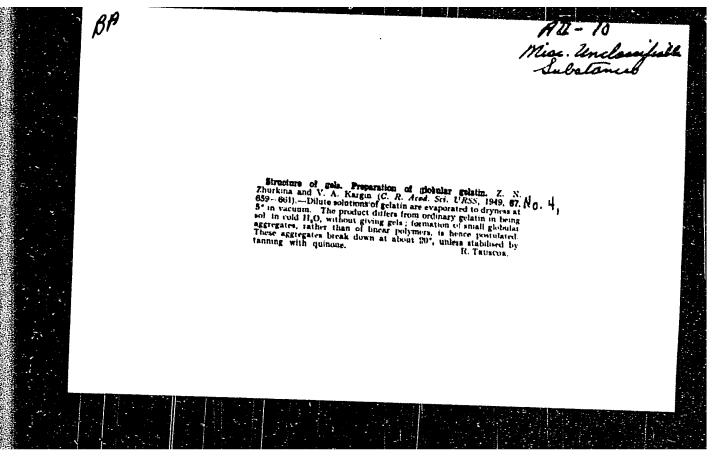


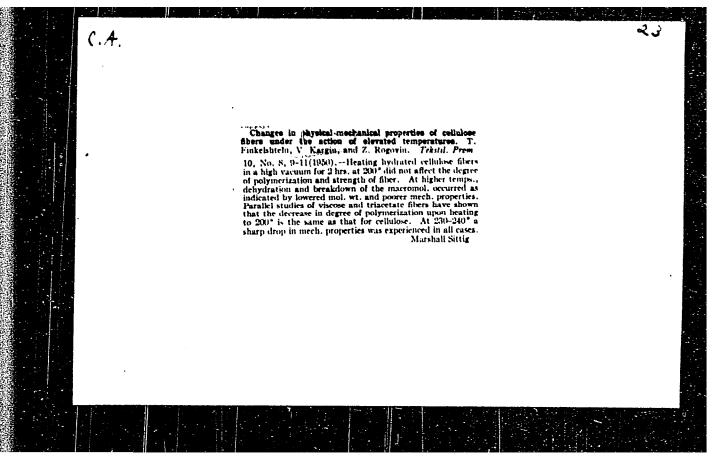


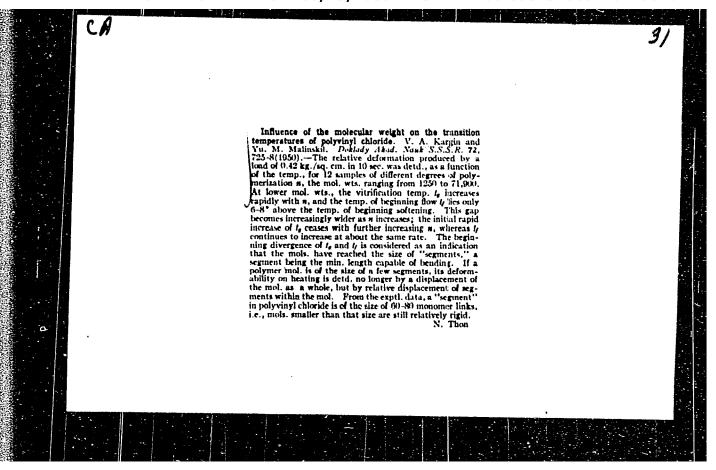
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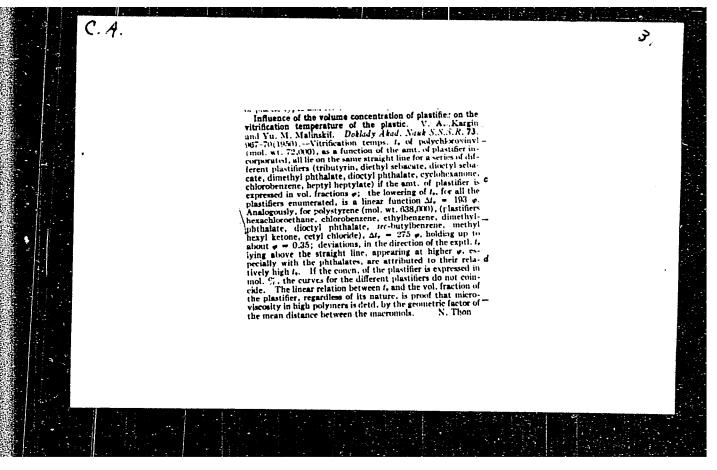


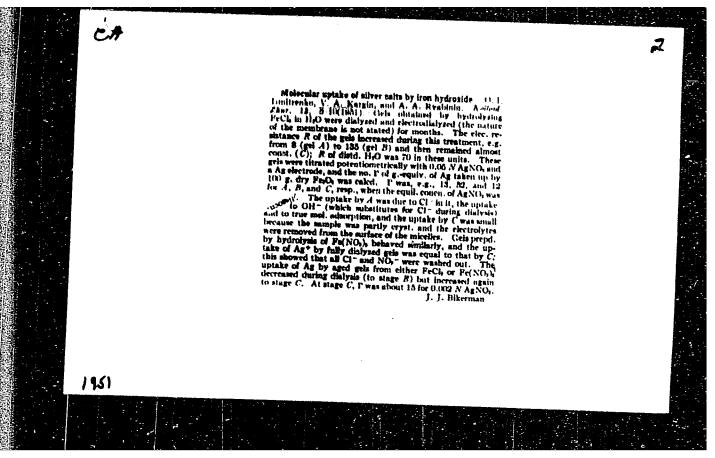
UBER/Chemistry - Isobutylene Chemistry - Viscometric Analysis "Research on the Process of Viscous Flow in Polyisobutylene," V. A. Kargin, T. I. Sogolova, Physicochem Inst imeni L. Ya. Karpov, Lab of Colloid Chem, Moscow, 12 pp "Zhur Fiz Khim" Vol XXIII, No 5 Concludes increase in viscosity during flow is explained by a straightening out of the chains of high polymers which causes a decreased rate of high polymers which causes a decreased rate of chain. This hypothesis is in conformity with	
relaxation properties of polyisobutylene subjected to flow. Submitted 10 Jul 48.	butylene sub- 1 48.
28/th/85	
KARGIN, V. A.	58/H9I32

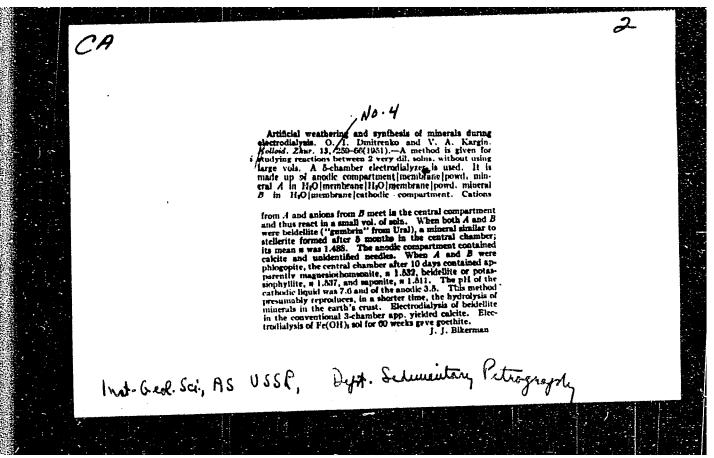












KARGIN, V. A.

USSR/Chemistry - Suspensions, Carbon Black

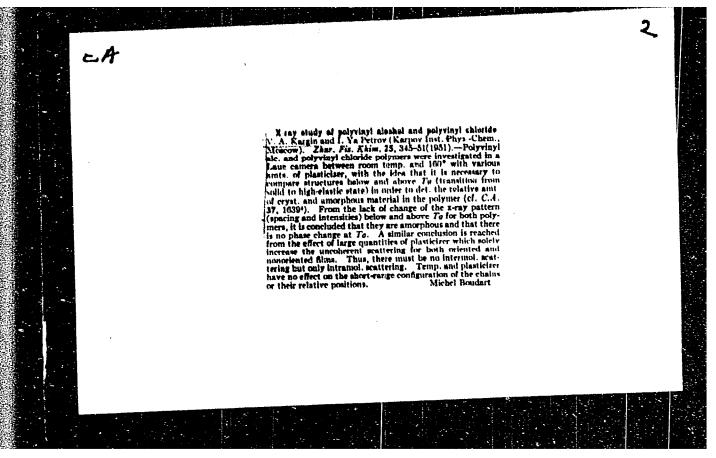
Sep/Oct 红

"Investigation of Structures in Carbon Black Suspensions. 1. Effects of the Velocity of Flow, Time, Temperature, and Concentration of Carbon Black on the Structure of Carbon Black Suspensions, "S. S. Voyutskiy, A. D. Zayonchkovskiy, V. A. Kargin, S. I. Rubina, Cen Sci Res Inst of Leather Substitutes, Moscow

"Kolloid Zhur" Vol XIII, No 5, pp 333-333

Developed method for detg structure formation in carbon black, which is based on measurement of elec cond without destruction of structure. Demonstrated existence of elec cond in very dil carbon black suspensions both in static condition and in flow. Using new method, studied effect of flow velocity on structure and dependence of structure on time, temp, and concn. Demonstrated that carbon black particles have nearly constant diam throughout particle.

PA 196T4



KARGIN, V.A. 178Tl3

USSR/Chemistry - Carbon Black

21 Jan 51

"Investigation of Structure Formation in Carbon Black Suspensions," S.S. Voyutskiy, A. D. Zayonchkovskiy, V.A. Kargin, Corr Mem, Acad Sci USSR, S.I. Rubina, CEN Sci Res Inst of Leather Substitutes

"Dok Ak Nauk SSSR" Vol LXXVI, No 3, 419-422

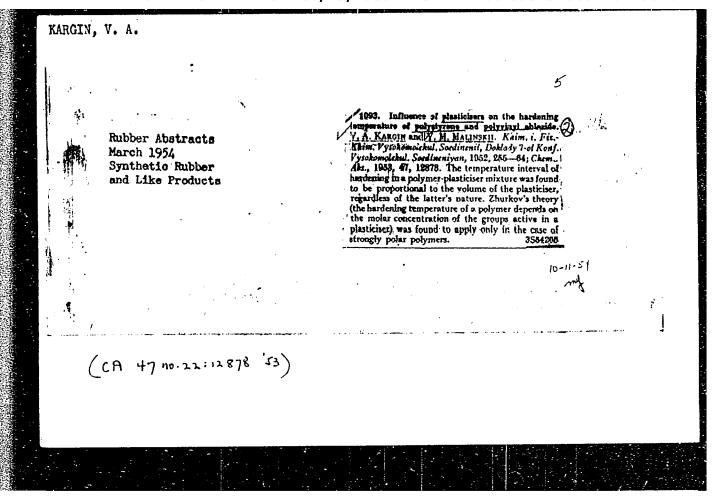
Subjected suspension of carbon black in oil to action of rotating cyl of electrically driven M.V. Volarovich PB-4 viscometer. Found elec cond of the suspension to be reduced perpendicularly to direction of flow and increased in direction of flow due to orientation. Cond increased with increasing temp by reason of formation of coagulations tructures with increased contact surface between particles. Although greater at higher concn, cond is still quite prominent at low concn.

178T13

KARGIN, V. A. and USMANOV, Kh. U.

"Water Sorption and Structural Differences in Cellulosic Materials," Khim. i Fiz.Khim. Vysolomolekul. Soyedinenii, Dok. 7-oi Konf. po Vysokomolekul. Soyedineniyam, pp. 169-181, 1952

Translation D 449977



- KLIMENKOV, V.S.; KARGIN, V.A.; KITAYGORODSKIY, A.I.

Density of packing of highly polymeric compounds. Khim. 1 Fiz.
Khim. Vysokomolekul. Soedineniy, Doklady 7-oy Konf. Vysokomolekul.
Soedineniyam '52. 231-41.
(CA 47 no.15:7817 '53)

(CA 47 no.15:7817 '53)

MIKHAYLOV, N.V.; NAYBORODA, V.I.; KARGIN, V.A.; MIRONOVA, Ye.a.; BaLaidina,I.N.

New data on the kinetics of the riponing of viscose. Colloid.J. (U.S.S.R.)

14, 61-9 '52 [in English].

(CA 47 no.19:10221 '53)

KARGIN, V. A.

KARCIN T

USSR/Chemistry (Colloid) - Vanadium Pentoxide

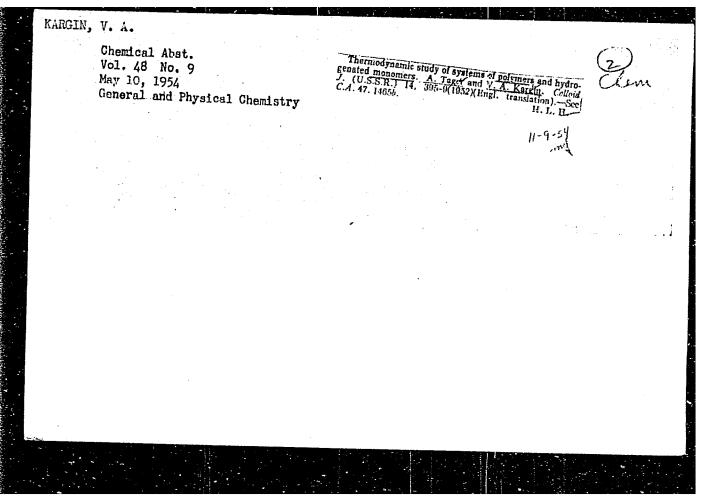
Mar/Apr 52

"The Structure of Vanadium Pentoxide Solubles," Z. Ya. Berestnyeva, T. A. Koretskaya, V. A. Kargin, Sci Res Phys Chem Inst imeni L. Ya. Karpov

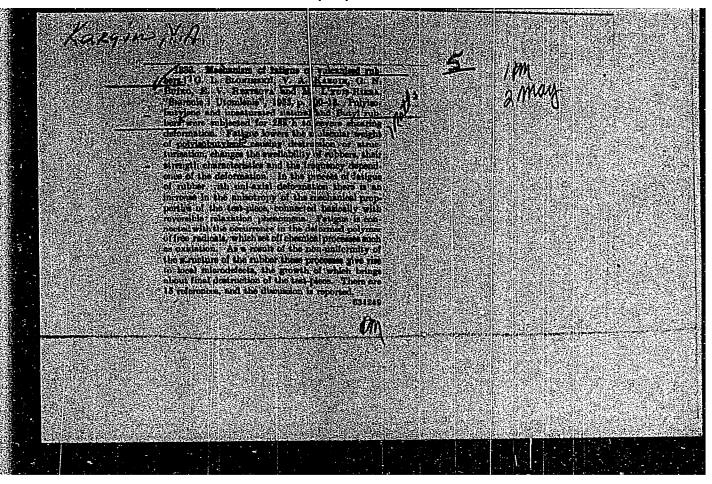
"Kolloid Zhur" Vol XIV, No 2, 1952, pp 73-76

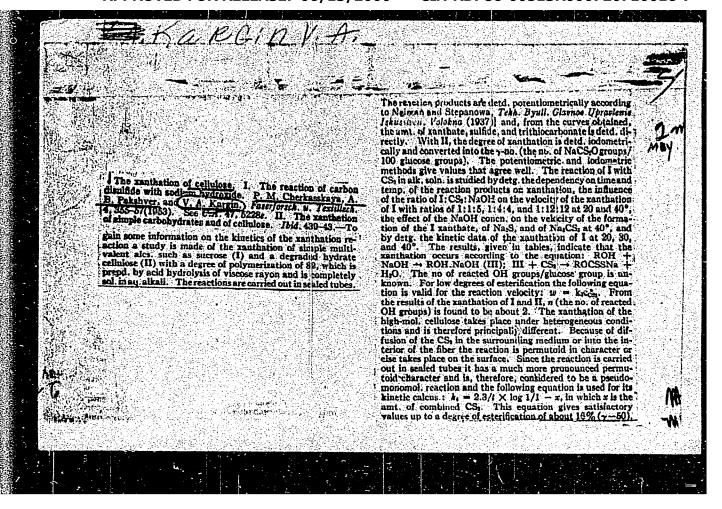
Electron diffraction diagrams of freshly prepd V_2O_5 sols and of sols prepd by aging were obtained. The freshly prepd sols have amorphous structure. As they age, crystn sets in. After a few days, good interference pictures of polycrystals are obtained.

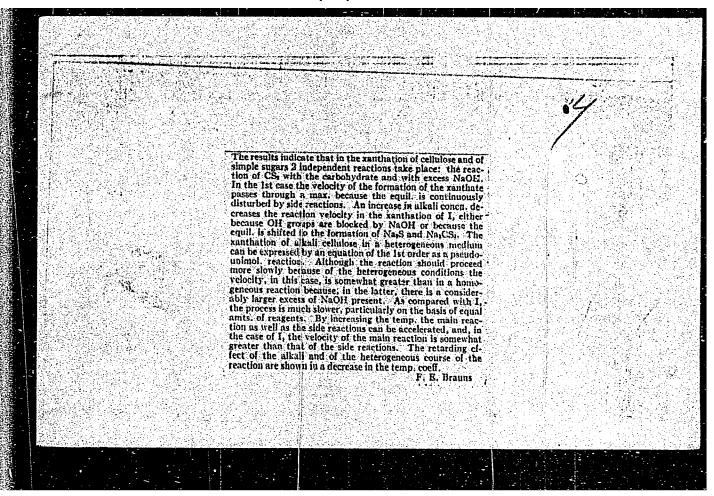
216T8

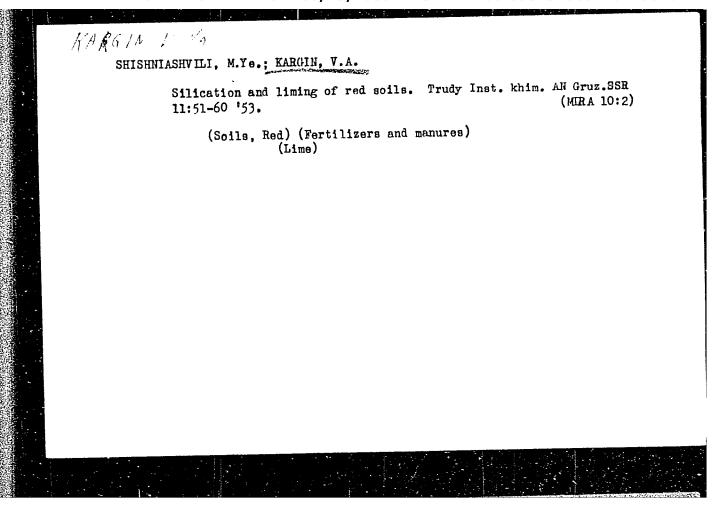


	Chem. Abst. Vol 48, No. 9 May 10, 1954	
	General and Physical Chemistry	The mechanism of formation of colloidal particles of a chem
		The mechanism of formation of colloidal particles of a gold sol. Z. Va. Berestneys, T. A. Köretskaya, and V. A. Karein, Colloid J. (U.S.S.R.) 14, 427-32 1053 Engl. translation).—See C.A. 47, 5083d. H. L. H.
		translation).—See C.A. M. West
		Visit 7
	y ny faritr'i Amerika (na 1944). Na anaka na na na hasa na anaka na na anaka na anaka na na anaka na na anaka n Na anaka na	
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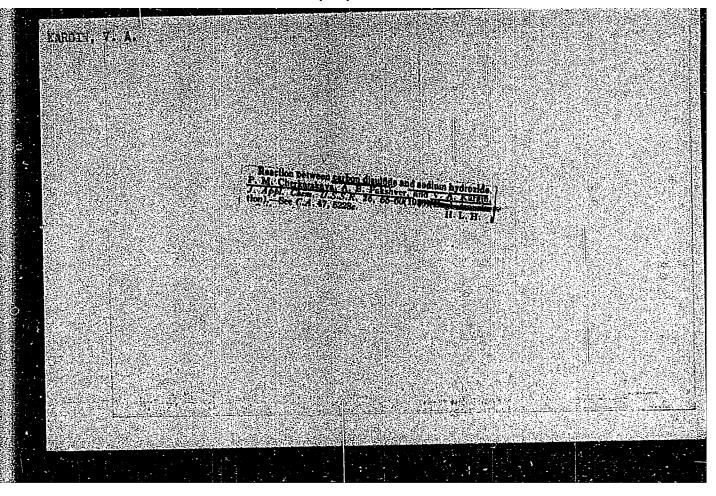


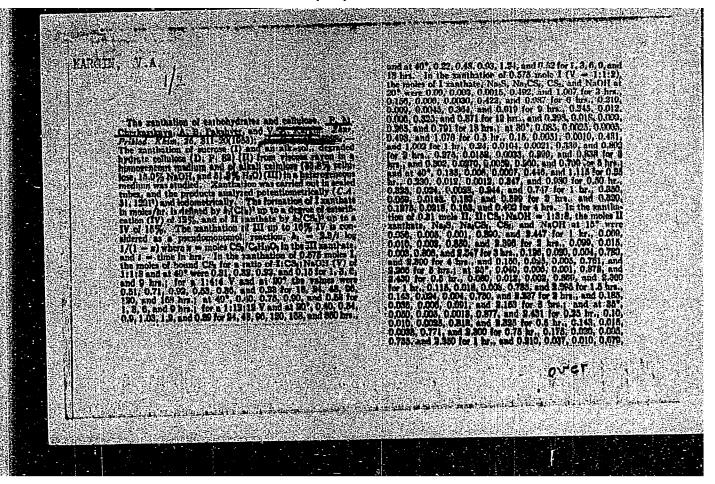


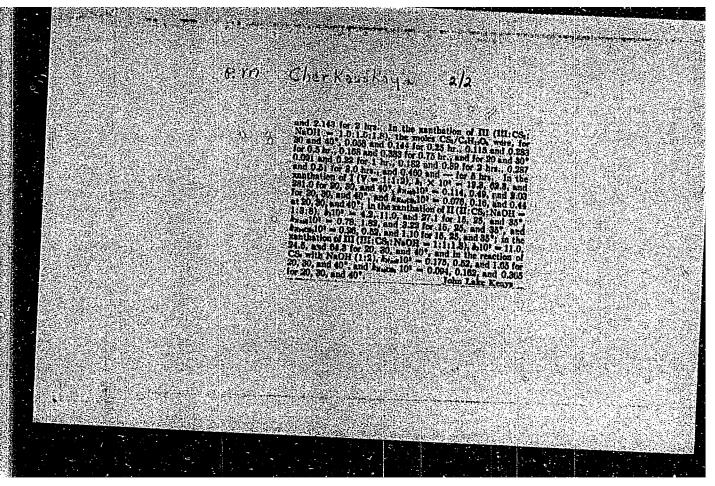


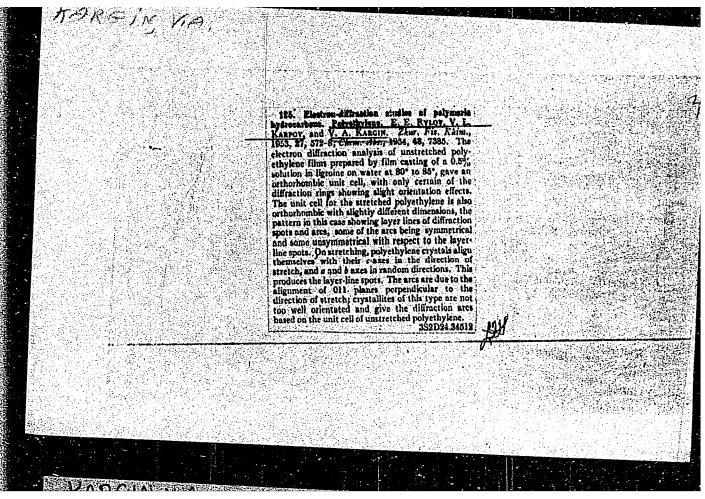


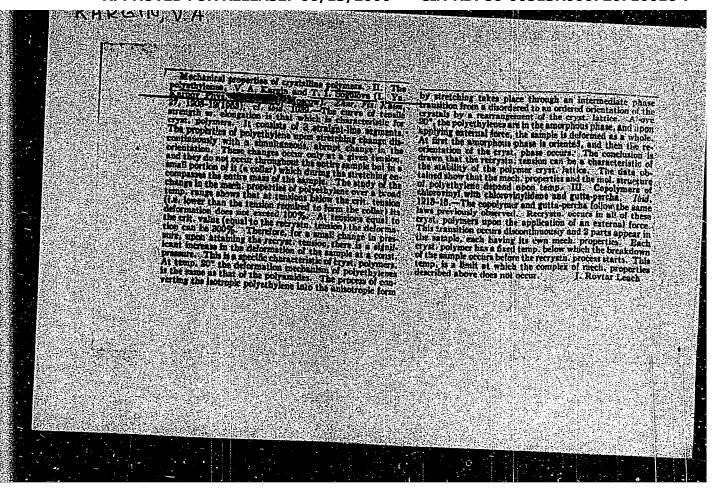
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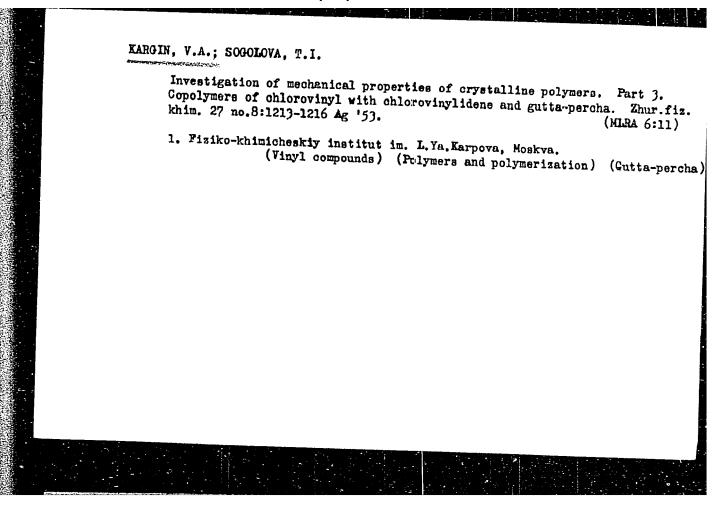


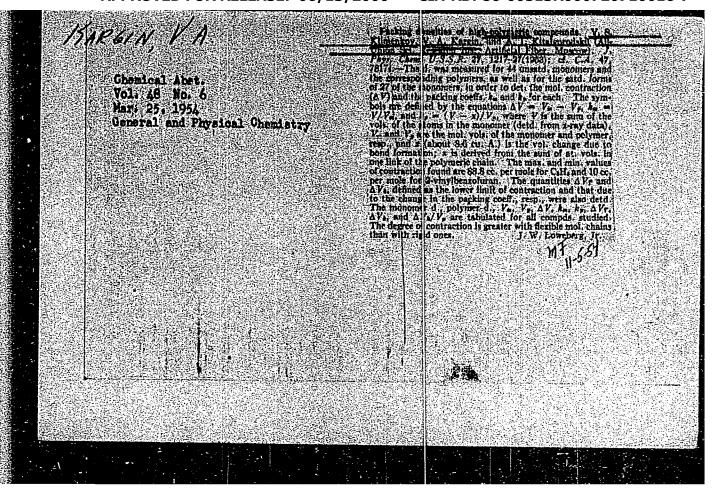












KARGIN, V. A.

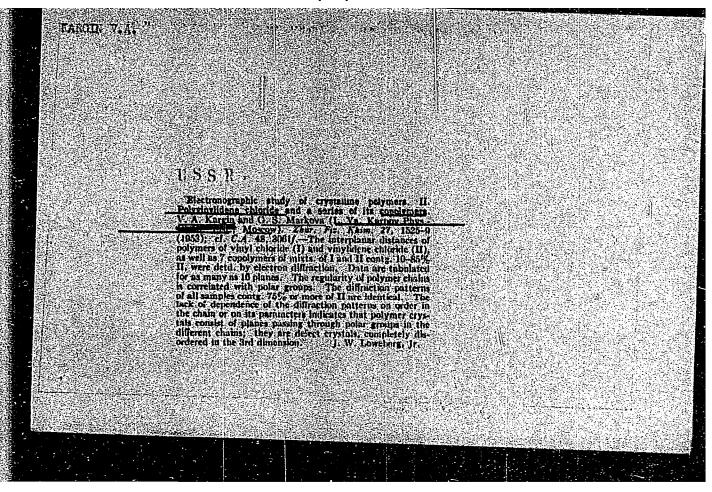
Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Synthetic Resins and Plastics

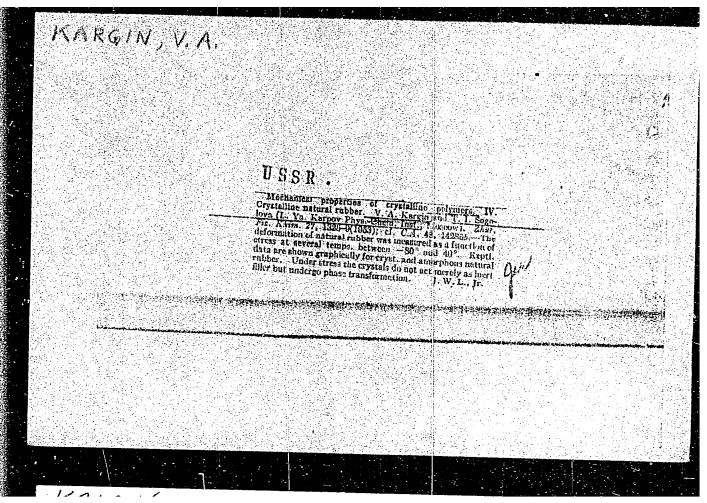
Electronographic investigation of crystalline nolymera.

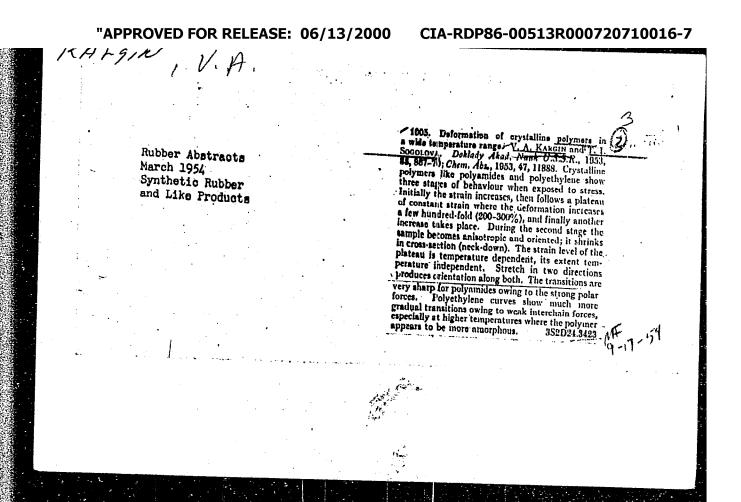
I. Linear polymers. 1-V. A. Kargin and G. S. Murkovii.
(D. Ya. Karpov Phys.-Chemi: Inst., Mescow). 7. Phys. Chem. U.S.S.R. 27, 1230-40(1053); C. C.A. 46, 3364h.—Polyamides made by the condensation of diamines contg. 4-10 CH₃ groups with dicarboxylic acids contg. 4-8 CH₃ groups were studied by means of electron diffraction. Simples 100-1000 A. thick were examid, with 60-kv. clectrons. The observed identity periods in A. me tabulated for 7 polyamides, a cylon copolymer, and 4 diamine salts of dicarboxylic acids. Polyamides have a highly regular structure, giving diffraction patterns similar in line width to those of cryst, org. compds. of low not. wt. Diamine salts of dicarboxylic acids have a less regular structure. Polyamide diffraction patterns are very similar as regards the no. of reflexes and their intensities, differences in chain structure notwithstanding.

J. W. Loweberg, Jr.

11-27-54







KARGIN, V. A.

USSR/Physics - Ultrasonic Absorption 11 Apr 53

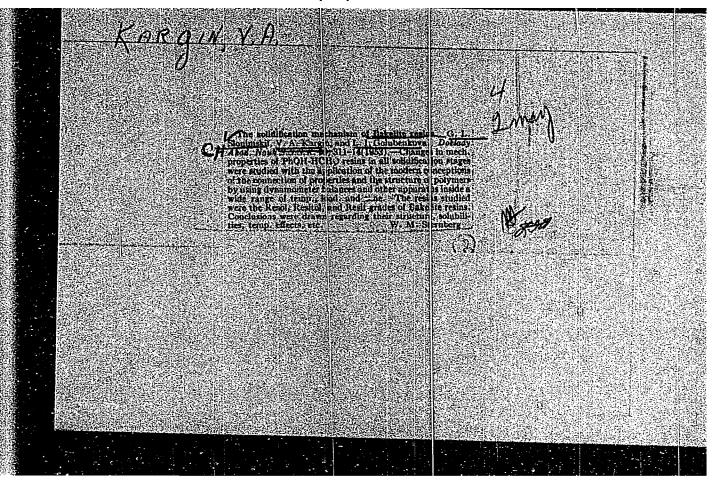
"Absorption of Ultrasound in Solutions of Polymers," Yu. Ya. Gotlib and M. V. Vol'kenshteyn

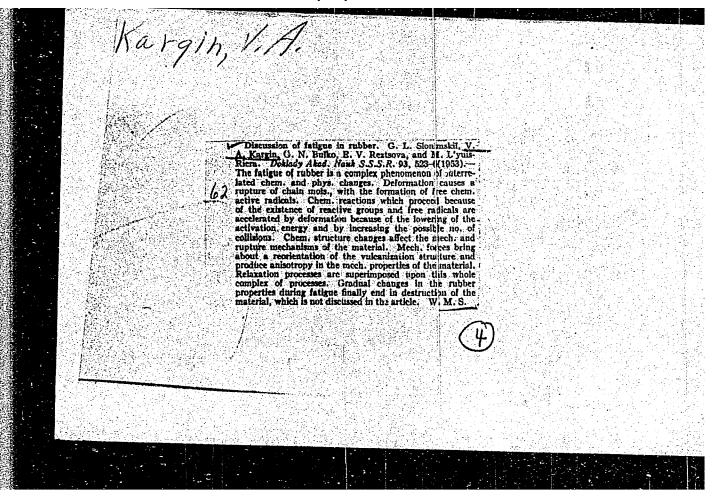
DAN SSSR, Vol 89, No 5, pp 821-824

Derivation and soln of the eqs describing the Kargin-Slonimskiy model (V. A. Kargin and G. L. Slonimskiy, DAN SSER, Vol 62, No 2, 239 (1948); Zhur Fiz Khimii, 23, 5, 563 (142)) of a net-like high polymer immersed in a soln as a sequence of sphere-segments connected by quasi-elastic forces of a statistical character. Presented by Acad A. N. Terenin 13 Feb 53.

259187

259187





Scientific Conference at the Institute for Physical Chemistry Imeni L. Ya. Karpov.

64-1-18/19

M. I. Temkin and L. E. Apel'baum on the chain characteristics of heterogeneous catalytic reactions and professor G. K. Boreskov reported on: "Some Questions of Catalyst Selection." There are no references.

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Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720710016-7"
Category: USSR/Chemistry of High-Molecular Substance:

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30890

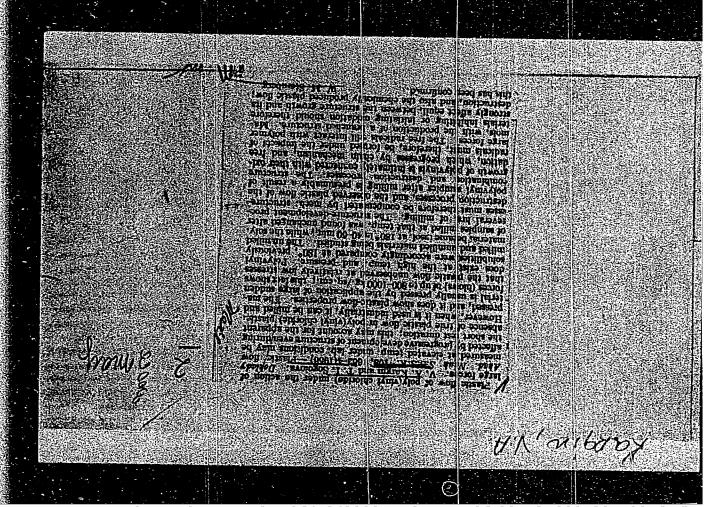
Author : Kargin V.A., Gatovskaya T.V.

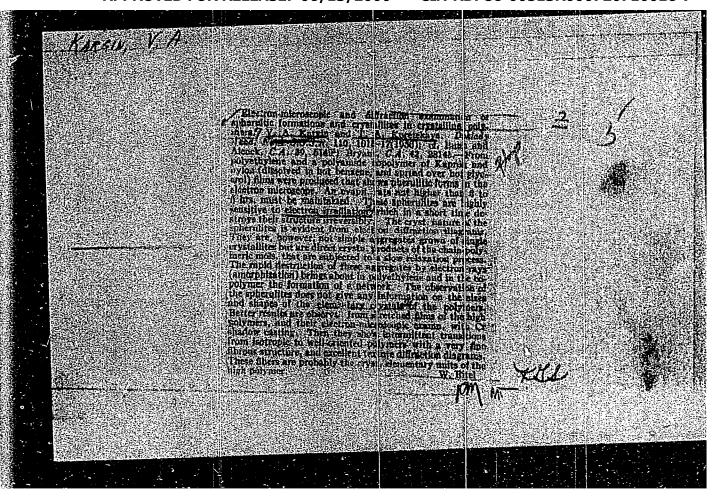
that the glass formed during the desorption process has a different structure, as compared with the initial, due to the plasticizing action of the monomer during sorption.

: 3/3 Card

-6-

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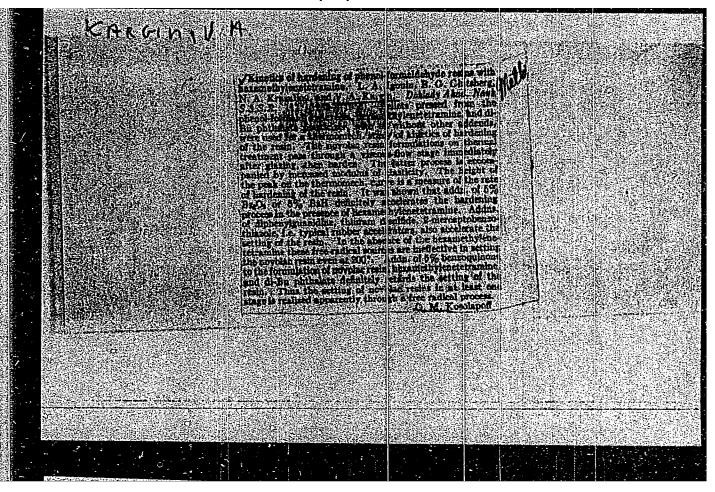


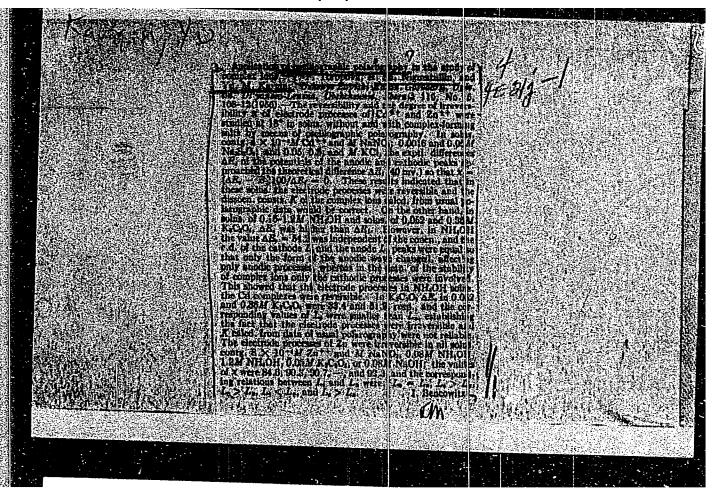
MIKHAYLOV, N.V.; MAYBORODA, V.I.; KARGIN, V.A. akademik.

New method for the production of viscose fibers. Dokl. AM
SSSR 111 no.3:656-658 N '56.

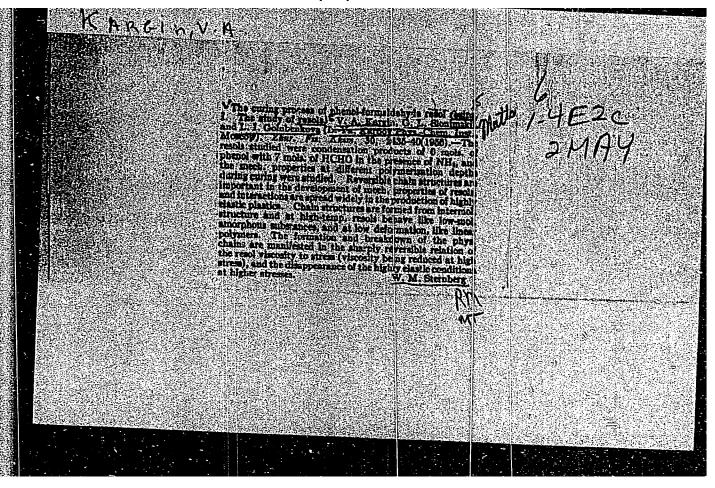
1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna.

(Rayon) (Textile fibers, Synthetic)

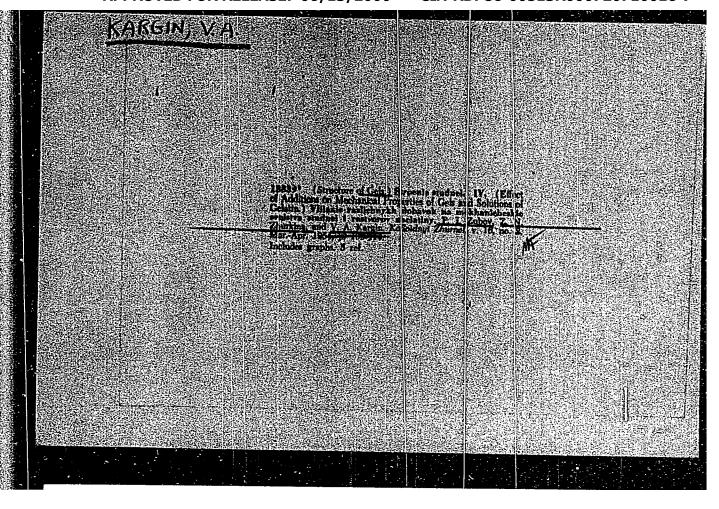




"Crystallization and orientation," a paper presented at the 9th Congress on the Chemistry and Flysics of High Polymers, 26 Jan-2 Feb 57, Moscow. Inst. for Physical Chemistry, Acad. Sci. (Noupov 1:st.)
E-3,084,395



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Category: USSR/Chemistry of High-Molecular Substances

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30890

Author : Kargin V.A., Gatovskaya T.V.

of monomer, which exercises a plasticizing action, the polymer is changed to a highly elastic state and the process of sorption begins to reach one of entropy nature. In the case of densely packed glasses the first portion is not attained. Sorption begins when the amount of monomer sorbed at the surface becomes sufficient to fuse the glass and change the polymer to an elastic state. Such polymers include polymethyl-methacrylate, polyvinyl alcohol, polyacrylic acid. Nature of the transition from 1-st portion to the 2-nd is determined by properties of the polymer. Thus the fundamental factor which determines sorption of vapor by polymeric glasses is packing density of the chains and change in physical state on sorption. Hysteresis phenomena on desorption are due to change in physical state of polymer, as a result of which the surface layer is vitrified which hinders diffusion from the bulk of the polymer. The assumption is made

Card : 2/3

KARGIN, V. A.

Category: USSR/Chemistry of High-Molecular Substances

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Author : Kargin V.A., Gatovskaya T.V.

Inst : not given-

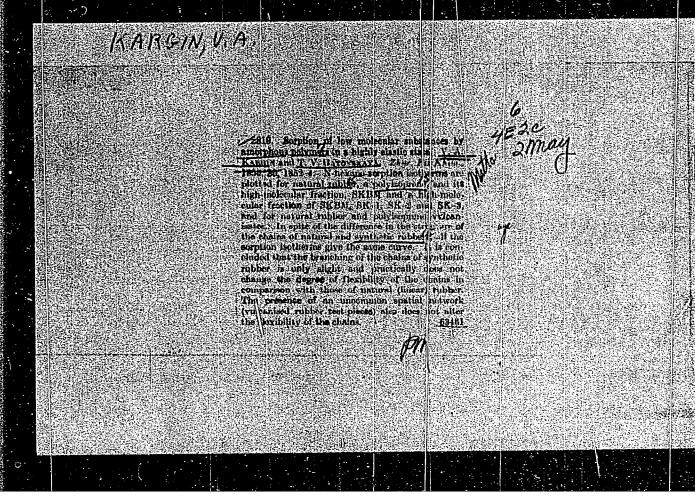
: Sorption of Hydrogenated Monomers by Amorphous Polymers and Title

Vitreous State

Orig Pub: Zh. fiz. khimii, 1956, 30, No 9, 2051-2056

Abstract: Study of sorption of hydrogenated monomers by polymers in the vitrification state (polyacrylic acid - propionic acid, polyvinyl alcohol - ethanol, polyvinyl chloride - ethyl chloride, polymethylmethacrylate - methylester of isobutyric acid, polybutylacrylate - butyl ester of isobutyric acid and polystyrene benzene). Sorption isotherms are characterized by presence of two portions over the first of which true sorption occurs as a result of micro-porosity of the material. Loosely packed glasses behave like true adsorbants up to the point at which all micropores become filled with monomer; with accumulation

Card : 1/3



EARCH, V.A.; SOGOLOVA, T.I.; SLOHIMSKIY, G.L.; RESTSOVA, Ye.V.

The mechanism of fluidity of polymer formation. Zhur.fiz.khim. 30 no.8:1903 Ag '56. (MIRA 10:1)

1. Fiziko-khimicheskiy instutut imeni L.Ya. Karpova i Institut shinnoy promyshlennosti, Moskva. (Polymera)

(Polymera)

CIA-RDP86-00513R000720710016-7 "APPROVED FOR RELEASE: 06/13/2000

KARGIN, V. A.

Category: USSR/Atomic and Molecular Physics - Physics of High-D-9 Molecular Substances.

Abs Jour : Ref Zhur - Fizika, No 5, 1957, No 6450

: Lipetov, Yu.S., Kergin, V.A., Slonimskiy, G.L. Inst : Physical Institute imeni L.Ye. Karpov, Moscow.

: Investigation of the Orientation in High Folymers. II. Title

Crystalline Folymers.

Orig Fub: Zh. fiz. khimii, 1956, 30, No 6, 1202-1206

Abstract: The heats of dissolution of criented and non-oriented polyethylene, caprone, gutta-perche, and a copolymer of vinyl chloride and chlorvinyledine have been determined. It is shown that there is no substantial change in the ratio of the emorphous and crystalling phases upon orientation, It si suggested that the processes of cold drawing of crystalline polymers has a kinetic character. Comparison of data on crystalline and emorphous polymers leads to the conclusion that the kinetic character of the establishment of equilibrium in the system upon orientation is common to both groups

Cerd : 1/2

> * TOTUS OF High---- Dubstances.

Abs Jour & Ref Zhur - Fizike, No 3, 1957, No 6450

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-UUDLONG
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-UUDLONG
The primary set is the disturbance of the equilibrium in the location of the links of the polymer chain, followed by the formation of crystallineordered or geometrically-ordered regions, oriented in a de-

Card : 2/2

Adsurger ... A. Accellementan Ar. 1977 sorbtion were made for oriented and unoriented films of polyetyrd, polyvinyl chloride, polymethyl metacryllate, and cellulose acetate (the latter also in the form of acetate silk). The results obtained show that the orientation of the first three polymers decreases the packing density, and orientation of the cellulose acetate causes it to increase. This is explained by the kinetic nature of the re-grouping processes of the molecules upon orientation and their dependence on the flexibility of the chain, on the magnitude of the intermolecular forces, and on the deformation conditions.

KARGIN, VA.

Category: USSR/Optics - Spectroscopy

K-6

Abs Jour: Ref Zhur - Fizika, No 2, 1957, No 5117

Author : Markova, G.S., Sadovskaya, G.K., Kargin, V.A.

Inst : Physicochemical Institute, Moscow

Title : Change in Infrared Absorption Spectra Upon Softening and Hardening

of Crystalline and Amerphous Polymers.

Orig Pub: Zh. fiz. khimii, 1956, 30, No 2, 437-441

Abstract : An investigation was made of gutta-percha polytrigluor-chlorethylene,

polystyrol, polydichlorstyrol, polyvinyl chloride, and polymetylmetacrylate. A sharp change in the spectra in the vicinity of the melting temperatures of polymers was established for crystalline polymers. The spectra of the amorphous polymers do not experience any changes all the way to temperatures that are known to exceed the softening temperature of the substances. Spectra of the investigated substances at various temperatures are shown. A method is described for preparing the specimen. It is shown that the melting of polymer crystals exhibits no specific difference from the melting of crystals of low-molecular

substances.

Card : 1/1

Zurn.techn.fis, 26, fasc.12, 2684-2689 (1956) CARD 2 / 2 PA - 1822 tions of individual fibres remain unknown. The values obtained are shown in form of a table. By means of the pendulum ram the following tests can be carried out: Determination of the tearing characteristics of the cord subjected to impact and/or several impacts. In the course of the process the following quantities can be determined: the amount of energy needed for tearing the fibre; the amount of the elongation of the fibre; the duration of impact and, in the case of several impacts, also the number of impacts as well as the quantity of the common remaining and elastic deformations.

INSTITUTION: The Scientific Research Institute of the Automobile Tire Industry, Moscow.

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